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	CAPITAL OF TEXAS HIGHWAY SOUTH MALEK, LEILA			, LEILA	
AUSTIN, TX 7	8746		ART UNIT	ART UNIT PAPER NUMBER 2611	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/679,013	DUPUIS ET AL.	
Office Action Summary	Examiner	Art Unit	
	LEILA MALEK	2611	
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet v	ith the correspondence address	-
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL! - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If NO period for reply is specified above, the maximum statutor, - Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a ttion. y period will apply and will expire SIX (6) MO by statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed or 2a) This action is FINAL . 2b) 3) Since this application is in condition for a closed in accordance with the practice u	This action is non-final. Allowance except for formal ma		s is
Disposition of Claims			
4) Claim(s) 44-111 is/are pending in the ap 4a) Of the above claim(s) is/are w 5) Claim(s) 60-111 is/are allowed. 6) Claim(s) 44,49,50 and 53 is/are rejected 7) Claim(s) 45-48,51,52 and 54-59 is/are o 8) Claim(s) are subject to restriction Application Papers 9) The specification is objected to by the Ex 10) The drawing(s) filed on 02 February 2000 Applicant may not request that any objection Replacement drawing sheet(s) including the	rithdrawn from consideration. bjected to. and/or election requirement. caminer. is/are: a)⊠ accepted or b)□ to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	1(d).
11) The oath or declaration is objected to by	•		
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for f a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action fo 	uments have been received. uments have been received in a ne priority documents have been Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 04/16/2008.	948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statements filed on 04/16/2008, 09/29/2006 and 06/24/2004 have been considered and made of record by the examiner.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 44, 49, 50, and 53 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 6, 9, 10, 13, 17, 18, 21, 26, 28, 38, 41, and 42, of U.S. Patent No. 6,570,513 in view of Hershbarger (US 5,500,894). Although the conflicting claims are not identical, they are not patentably distinct from each other because: Applicants in claims 44, 49, 50, and 53 of the instant application recite all the limitations of claims 1, 6, 9,

10, 13, 17, 18, 21, 26, 28, 38, 41, and 42 of the US 6,570,513, except for using a DC holding circuit within the phone line side circuitry, wherein the DC holding circuit is programmable in response to data transmitted across the isolation barrier to operate the DC holding circuit in a plurality of modes. Also the cited claims from patent Application # 6,570,513, fail to disclose that the DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, the second phone line interface standard having a DC current limit requirement. However, Hershbarger discloses a DC holding circuit within the phone line side circuitry (see column 3, lines 49-50), wherein the DC holding circuit is programmable (see column 4, lines 22-25) in response to data transmitted across the isolation barrier 664. Hershbarger further discloses that DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard (see Figs. 2, 3, 7A, column 3, lines 41-56, column 4, lines 22-25, and column 12, lines 3-26). Hershbarger does not expressly disclose that the second phone line interface standard having a DC current limit requirement. However, it is well known in the art that every standard has its own DC current limit requirement. Generally, it would have been obvious to one of ordinary skill in the art at the time of invention to use a DC holding circuit within the phone line side circuitry to terminate telephone connections at user's end. Furthermore, it would have been obvious to one of ordinary skill in the art at the time of invention to have a DC holding circuit operable in a first mode to meet a first phone line interface

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standard and a second mode to meet a second phone line interface standard, in order to provide a telephone line interface compatible with differing standards (see column 1, lines 38-57).

4. Claims 44, 49, 50, and 53 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 6, 9, 10, 15, 19, 20, 25, 30, 46, 49, and 50, of U.S. Patent No. 6,683,548 in view of Hershbarger (US 5,500,894). Although the conflicting claims are not identical, they are not patentably distinct from each other because: Applicants in claims 44, 49, 50, and 53 of the instant application recite all the limitations of claims 1, 6, 9, 10, 15, 19, 20, 25, 30, 46, 49, and 50, of U.S. Patent No. 6,683,548, except for using a DC holding circuit within the phone line side circuitry, wherein the DC holding circuit is programmable in response to data transmitted across the isolation barrier to operate the DC holding circuit in a plurality of modes. Also the cited claims from patent Application # 6,683,548, fail to disclose that the DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, the second phone line interface standard having a DC current limit requirement. Hershbarger discloses a DC holding circuit within the phone line side circuitry (see column 3, lines 49-50), wherein the DC holding circuit is programmable (see column 4, lines 22-25) in response to data transmitted across the isolation barrier 664. Hershbarger further discloses that DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard

(see Figs. 2, 3, 7A. column 3, lines 41-56, column 4, lines 22-25, and column 12, lines 3-26). Hershbarger does not expressly disclose that the second phone line interface standard having a DC current limit requirement. However, it is well known in the art that every standard has its own DC current limit requirement. Generally, it would have been obvious to one of ordinary skill in the art at the time of invention to use a DC holding circuit within the phone line side circuitry to terminate telephone connections at user's end. Furthermore, it would have been obvious to one of ordinary skill in the art at the time of invention to have a DC holding circuit operable in a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, in order to provide a telephone line interface compatible with differing standards (see column 1, lines 38-57).

5. Claims 44, 49, 50, and 53 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 14-16, 47, 53, 54, and 57 of U.S. Patent No. 6,922,469 in view of Hershbarger (US 5,500,894). Although the conflicting claims are not identical, they are not patentably distinct from each other because: Applicants in claims 44, 49, 50, and 53 of the instant application recite all the limitations of claims 1, 14-16, 47, 53, 54, and 57 of U.S. Patent No. 6,922,469, except for using a DC holding circuit within the phone line side circuitry, wherein the DC holding circuit is programmable in response to data transmitted across the isolation barrier to operate the DC holding circuit in a plurality of modes. Also the cited claims from patent Application # 6,922,469, fail to disclose that the DC holding circuit is

operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, the second phone line interface standard having a DC current limit requirement. Hershbarger discloses a DC holding circuit within the phone line side circuitry (see column 3, lines 49-50), wherein the DC holding circuit is programmable (see column 4, lines 22-25) in response to data transmitted across the isolation barrier 664. Hershbarger further discloses that DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard (see Figs. 2, 3, 7A. column 3, lines 41-56, column 4, lines 22-25, and column 12, lines 3-26). Hershbarger does not expressly disclose that the second phone line interface standard having a DC current limit requirement. However, it is well known in the art that every standard has its own DC current limit requirement. Generally, it would have been obvious to one of ordinary skill in the art at the time of invention to use a DC holding circuit within the phone line side circuitry to terminate telephone connections at user's end. Furthermore, it would have been obvious to one of ordinary skill in the art at the time of invention to have a DC holding circuit operable in a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, in order to provide a telephone line interface compatible with differing standards (see column 1, lines 38-57).

6. Claims 44, 49, 50, and 53 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 7, 14-16, 22-24, and 29 of U.S. Patent No. 6,959,083 in view of Hershbarger (US

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5,500,894). Although the conflicting claims are not identical, they are not patentably distinct from each other because: Applicants in claims 44, 49, 50, and 53 of the instant application recite all the limitations of claims 7, 14-16, 22-24, and 29 of U.S. Patent No. 6,959,083, except that the DC holding circuit is programmable in response to data transmitted across the isolation barrier to operate the DC holding circuit in a plurality of modes and that the DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, the second phone line interface standard having a DC current limit requirement. Hershbarger discloses a DC holding circuit within the phone line side circuitry (see column 3, lines 49-50), wherein the DC holding circuit is programmable (see column 4, lines 22-25) in response to data transmitted across the isolation barrier 664. Hershbarger further discloses that DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard (see Figs. 2, 3, 7A, column 3, lines 41-56, column 4, lines 22-25, and column 12, lines 3-26). Hershbarger does not expressly disclose that the second phone line interface standard having a DC current limit requirement. However, it is well known in the art that every standard has its own DC current limit requirement. It would have been obvious to one of ordinary skill in the art at the time of invention to have a DC holding circuit operable in a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, in order to provide

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a telephone line interface compatible with differing standards (see column 1, lines 38-57).

7. Claims 44, 49, 50, and 53 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 9-11, 19, 23, 24, 27, 33, 35, 36, and 39 of U.S. Patent No. 6,975,723 in view of Hershbarger (US 5,500,894). Although the conflicting claims are not identical, they are not patentably distinct from each other because: Applicants in claims 44, 49, 50, and 53 of the instant application recite all the limitations of claims 1, 9-11, 19, 23, 24, 27, 33, 35, 36, and 39 of U.S. Patent No. 6,975,723, except for using a DC holding circuit within the phone line side circuitry, wherein the DC holding circuit is programmable in response to data transmitted across the isolation barrier to operate the DC holding circuit in a plurality of modes. Also the cited claims from patent Application # 6,975,723, fail to disclose that the DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard. the second phone line interface standard having a DC current limit requirement. Hershbarger discloses a DC holding circuit within the phone line side circuitry (see column 3, lines 49-50), wherein the DC holding circuit is programmable (see column 4, lines 22-25) in response to data transmitted across the isolation barrier 664. Hershbarger further discloses that DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard (see Figs. 2, 3, 7A. column 3, lines 41-56, column 4, lines 22-25, and column 12, lines 3-26). Hershbarger does not

expressly disclose that the second phone line interface standard having a DC current limit requirement. However, it is well known in the art that every standard has its own DC current limit requirement. Generally, it would have been obvious to one of ordinary skill in the art at the time of invention to use a DC holding circuit within the phone line side circuitry to terminate telephone connections at user's end. Furthermore, it would have been obvious to one of ordinary skill in the art at the time of invention to have a DC holding circuit operable in a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, in order to provide a telephone line interface compatible with differing standards (see column 1, lines 38-57).

8. Claims 44, 49, 50, and 53 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 8, 16, 17, and 20, of U.S. Patent No. 7,283,584 in view of Hershbarger (US 5,500,894). Although the conflicting claims are not identical, they are not patentably distinct from each other because: Applicants in claims 44, 49, 50, and 53 of the instant application recite all the limitations of claims 8, 16, 17, and 20 of U.S. Patent No. 7,283,584, except for using a DC holding circuit within the phone line side circuitry, wherein the DC holding circuit is programmable in response to data transmitted across the isolation barrier to operate the DC holding circuit in a plurality of modes. Also the cited claims from patent Application # 7,283,584 fail to disclose that the DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, the second phone line interface standard having a DC

current limit requirement. Hershbarger discloses a DC holding circuit within the phone line side circuitry (see column 3, lines 49-50), wherein the DC holding circuit is programmable (see column 4, lines 22-25) in response to data transmitted across the isolation barrier 664. Hershbarger further discloses that DC holding circuit is operable in at least a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard (see Figs. 2, 3, 7A. column 3, lines 41-56, column 4, lines 22-25, and column 12, lines 3-26). Hershbarger does not expressly disclose that the second phone line interface standard having a DC current limit requirement. However, it is well known in the art that every standard has its own DC current limit requirement. Generally, it would have been obvious to one of ordinary skill in the art at the time of invention to use a DC holding circuit within the phone line side circuitry to terminate telephone connections at user's end. Furthermore, it would have been obvious to one of ordinary skill in the art at the time of invention to have a DC holding circuit operable in a first mode to meet a first phone line interface standard and a second mode to meet a second phone line interface standard, in order to provide a telephone line interface compatible with differing standards (see column 1, lines 38-57).

Allowable Subject Matter

9. Claims 60-111 allowed. The following is a statement of reasons for the indication of allowable subject matter:

As to claims 60 and 66, a comprehensive search of prior art of record failed to disclose, either alone or in combination, A method comprising: coupling

an isolation barrier between powered side circuitry and phone line side circuitry, the isolation barrier comprising a plurality of isolation elements; configuring the powered side circuitry to communicate a first digital differential signal to at least two of the isolation barrier elements, the at least two isolation barrier elements comprising at least a first isolation capacitor and a second isolation capacitor; configuring the phone line side circuitry to communicate a second digital differential signal to the first isolation capacitor and the second isolation capacitor so that the first and second digital differential signals are communicated across the same first and second isolation capacitors and so that the first and second isolation capacitors bidirectionally transfer the first and second digital differential signals; configuring the powered side circuitry to provide a clock signal to the phone line side circuitry through at least one of the plurality of isolation elements; configuring the powered side circuitry and the phone line side circuitry so that power is capable of being provided from the phone line side circuitry to the phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory standards; forming a DC holding circuit within the phone line side circuitry, the DC holding circuit comprising a phone line side integrated circuit and external circuitry external to the integrated circuit; providing a programmable circuit for switching the DC holding circuit between at least a first and second mode of operation, the first mode of operation for at least a first phone line interface standard and the second mode of operation for at least a second phone line interface standard, the second standard having a DC termination current limit; and coupling the internal circuitry and external circuitry

so that if the DC holding circuit is operated in the second mode of operation more power may be dissipated in the external circuitry during the second mode of operation than during the first mode of operation.

As to claims 70 and 78, a comprehensive search of prior art of record failed to disclose, either alone or in combination, an apparatus comprising: phone line side circuitry capable of being coupled to phone lines; powered side circuitry capable of being coupled to the phone line side circuitry through an isolation barrier comprised of a plurality of isolation elements; a DC holding circuit within the phone line side circuitry for reducing power dissipation requirements of an integrated circuit within the communication system, the DC holding circuit comprising: at least one switchable circuit, the switchable circuit having a first state for a non-current limiting mode of operation and a second state for a current limiting mode of operation, external circuitry external to the integrated circuit, and internal circuitry within the integrated circuit, the external circuitry and the internal circuitry being coupled together wherein the external circuitry dissipates more power in the current limiting mode than in the non-current limiting mode; wherein the powered side circuitry is configured to communicate a first digital differential signal to at least two of the plurality of isolation elements, the at least two isolation elements comprising at least a first isolation capacitor and a second isolation capacitor; wherein the phone line side circuitry is configured to communicate a second digital differential signal to the first isolation capacitor and the second isolation capacitor so that the first and second digital differential signals are communicated across the same first and second isolation capacitors

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and so that the first and second isolation capacitors bidirectionally transfer the first and second digital differential signals;

wherein the powered side circuitry is further configured to provide a clock signal to the phone line side circuitry through at least one of the plurality of isolation elements; and

wherein the powered side circuitry and the phone line side circuitry are configured so that power is capable of being provided from the powered side circuitry to the phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory standards.

As to claims 84 and 91, a comprehensive search of prior art of record failed to disclose, either alone or in combination, an apparatus comprising: phone line side circuitry capable of being coupled to phone lines; powered side circuitry capable of being coupled to the phone line side circuitry through an isolation barrier comprised of a plurality of isolation elements; a DC holding circuit compatible with a phone line standard having current limit requirements for reducing power dissipation requirements of an integrated circuit within the communication system, the DC holding circuit comprising: external circuitry external to the integrated circuit, and internal circuitry within the integrated circuit, the external circuitry and the internal circuitry being coupled together wherein the external circuitry dissipates more power than the internal circuitry in at least one mode of operation; wherein the powered side circuitry is configured to communicate a first digital differential signal to at least two of the plurality of isolation elements, the at least two isolation elements comprising at least a first

standards.

isolation capacitor and a second isolation capacitor; wherein the phone line side circuitry is configured to communicate a second digital differential signal to the first isolation capacitor and the second isolation capacitor so that the first and second digital differential signals are communicated across the same first and second isolation capacitors and so that the first and second isolation capacitors bidirectionally transfer the first and second digital differential signals; wherein the powered side circuitry of the communication system is further configured to provide a clock signal to the phone line side circuitry through at least one of the plurality of isolation elements; and wherein the powered side circuitry and the phone line side circuitry are configured so that power is capable of being provided from the powered side circuitry of the communication system to the phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory

As to claims 96 and 101, a comprehensive search of prior art of record failed to disclose, either alone or in combination, a method comprising: coupling an isolation barrier between powered side circuitry and phone line side circuitry, the isolation barrier comprising a plurality of isolation elements; configuring the powered side circuitry to communicate a first digital differential signal to at least two of the isolation barrier elements, the at least two isolation barrier elements comprising at least a first isolation capacitor and a second isolation capacitor; configuring the phone line side circuitry to communicate a second digital differential signal to the first isolation capacitor and the second isolation capacitor

so that the first and second digital differential signals are communicated across the same first and second isolation capacitors and so that the first and second isolation capacitors bidirectionally transfer the first and second digital differential signals; configuring the powered side circuitry to provide a clock signal to the phone line side circuitry through at least one of the plurality of isolation elements; configuring the powered side circuitry and the phone line side circuitry so that power is capable of being provided from the phone line side circuitry to the phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory standards; forming a DC holding circuit within the phone line side circuitry, the DC holding circuit being formed with internal circuitry internal to an integrated circuit and external circuitry external to the integrated circuit, the DC holding circuit compatible with at least one phone line interface standard having a DC current limit requirement; and coupling the internal circuitry and external circuitry so that more power is capable of being dissipated in the external circuitry than in the internal circuitry.

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As to claims 104 and 109, a comprehensive search of prior art of record failed to disclose, either alone or in combination, a method comprising: providing phone line side circuitry capable of being coupled to phone lines; providing powered side circuitry capable of being coupled to the phone line side circuitry through an isolation barrier comprised of a plurality of isolation elements; providing integrated circuitry and nonintegrated circuitry to comprise a DC holding circuit within the phone line side circuitry; coupling the integrated circuitry and the non-integrated circuitry; and dissipating more power in the external

circuitry than in the internal circuitry if the DC holding circuit is utilized for a phone line interface standard having a DC current limit requirement; wherein the powered side circuitry is configured to communicate a first digital differential signal to at least two of the plurality of isolation elements, the at least two isolation elements comprising at least a first isolation capacitor and a second isolation capacitor; wherein the phone line side circuitry is configured to communicate a second digital differential signal to the first isolation capacitor and the second isolation capacitor so that the first and second digital differential signals are communicated across the same first and second isolation capacitors and so that the first and second isolation capacitors bidirectionally transfer the first and second digital differential signals; wherein the powered side circuitry is further configured to provide a clock signal to the phone line side circuitry through at least one of the plurality of isolation elements; and wherein the powered side circuitry and the phone line side circuitry are configured so that power is capable of being provided from the powered side circuitry to the phone line side circuitry while still maintaining the isolation required by the phone line isolation regulatory standards.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leila Malek whose telephone number is 571-272-8731. The examiner can normally be reached on 9AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021.

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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Leila Malek Examiner Art Unit 2611

/L.M./ /Leila Malek/ Examiner, Art Unit 2611

/Mohammad H Ghayour/ Supervisory Patent Examiner, Art Unit 2611